

CLAIMS

1. A viscous material application apparatus
comprising:

5 a main body having a pressurized chamber for storing a
viscous material, the pressurized chamber connecting through
to a discharge port;

 a viscous material supply device for transferring said
viscous material under pressure to said pressurized chamber;
10 and

 a discharge pressure regulating device for regulating
a discharge pressure of said viscous material by increasing
and decreasing a capacity of said pressurized chamber when
said viscous material inside said pressurized chamber is
15 pressurized and discharged,

 wherein the discharge pressure regulating device
includes a pouch which is positioned inside the pressurized
chamber and which increases and decreases in internal
capacity through intake and exhausting of gas, and an air
20 supply section for regulating pressure inside said pouch by
either one of supplying gas to, and discharging gas from
said pouch.

2. The viscous material application apparatus
25 according to claim 1, wherein following filling of said

pressurized chamber with said viscous material using said viscous material supply device, residual supply pressure remaining inside said pressurized chamber is absorbed by said pouch.

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3. The viscous material application apparatus according to claim 1, wherein a temperature of said viscous material is stabilized by exchanging gas inside said pouch.

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4. A viscous material application apparatus comprising:

a main body having a pressurized chamber for storing a viscous material, the pressurized chamber connecting through to a discharge port;

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a viscous material supply device for transferring said viscous material under pressure to said pressurized chamber; and

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a discharge pressure regulating device for regulating a discharge pressure of said viscous material by increasing and decreasing a capacity of said pressurized chamber when said viscous material inside said pressurized chamber is pressurized and discharged,

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wherein the discharge pressure regulating device includes an actuator such as an air cylinder and a voice coil motor, and a diaphragm which transforms under influence

of said actuator and increases and decreases capacity inside said pressurized chamber.

5. A viscous material application apparatus

5 comprising:

a main body having a single pressurized chamber for storing a viscous material, the pressurized chamber connecting through to a single discharge port;

a plurality of viscous material supply devices for
10 transferring said viscous material under pressure to said pressurized chamber, all of said plurality of viscous material supply devices containing the same type of viscous material; and

a single discharge pressure regulating device for
15 regulating a discharge pressure of said viscous material by increasing and decreasing a capacity of said pressurized chamber when said viscous material inside said pressurized chamber is pressurized and discharged, the discharge pressure regulating device being provided either inside said
20 pressurized chamber or facing said pressurized chamber,

wherein the pressurized chamber, the discharge pressure regulating device and the discharge port are shared across the plurality of linearly aligned viscous material supply devices, and a discharge pressure of said viscous
25 material at discharge positions along an alignment direction

of said viscous material supply devices is regulated in a single batch.

6. A viscous material application apparatus

5 comprising:

a main body having a pressurized chamber for storing a viscous material, the pressurized chamber connecting through to a discharge port;

a viscous material supply device for transferring said
10 viscous material under pressure to said pressurized chamber;
and

a plurality of discharge pressure regulating devices
for regulating a discharge pressure of said viscous material
at a discharge position by increasing and decreasing a
15 capacity of said pressurized chamber when said viscous
material inside said pressurized chamber is pressurized and
discharged, the discharge pressure regulating devices being
provided either inside said pressurized chamber or facing
said pressurized chamber.

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7. A viscous material application method wherein a
single pressurized chamber, discharge pressure regulating
device and discharge port are shared across a plurality of
linearly aligned viscous material supply devices which all
25 contain the same type of viscous material, a discharge

pressure of said viscous material is regulated in a single batch by increasing and decreasing a capacity of said pressurized chamber when said viscous material inside said pressurized chamber is pressurized and discharged, and said
5 viscous material is moved inside said chamber and recovered into said chamber.